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This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1-40. (Cancelled)

- 41. (Previously presented) An integrated filtration and detection device for collecting and detecting the growth of microorganisms in a specimen, said device comprising:
 - a) a container including a side wall and a fixed end wall defining a chamber therein and having an inlet and an outlet in fluid communication with said chamber, wherein said end wall defines a continuous closed surface that is continuous with said side wall and free of openings;
 - b) a filter for filtering fluids, said filter mounted in said chamber between said inlet and said outlet; and
 - c) a sensor mounted in said chamber parallel to and against said end wall of said chamber, said sensor operative to exhibit a change in a measurable property thereof upon exposure to changes in said chamber due to microbial growth;

wherein said container has a transparent section and changes in said measurable property of said sensor are detectable through said transparent section; and said sensor and said filter are disposed at opposed ends of said chamber.

- 42. (Previously presented) The device of Claim 41 wherein said container is unitary and said inlet and said outlet are the only openings into said container communicating with said chamber.
 - 43. (Previously presented) The device of Claim 42 wherein:

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said device has an operative testing orientation and, when said device is in said operative testing orientation, said sensor resides at a lower end of said chamber and below said filter; and

wherein, when said device is in said operative testing orientation, said inlet and said outlet are each located above said sensor.

- 44. (Previously presented) The device of Claim 41 wherein said device has an operative testing orientation and, when said device is in said operative testing orientation, said sensor resides at a lower end of said chamber and below said filter.
- 45. (Previously presented) An integrated filtration and detection product for collecting and detecting the growth of microorganisms in a specimen, said product comprising: a container defining a chamber therein and having an inlet and an outlet in fluid communication with said chamber;
 - a liquid culturing medium disposed in said chamber;
 - a filter for filtering fluids, said filter mounted in said chamber between said inlet and said outlet; and
 - a sensor mounted in said chamber parallel to and against an end wall of said chamber, said sensor operative to exhibit a change in a measurable property thereof upon exposure to changes in said chamber due to microbial growth;

wherein said container has a transparent section and changes in said measurable property of said sensor are detectable through said transparent section; and said sensor and said filter are disposed at opposed ends of said chamber;

wherein said sensor resides at a lower end of said chamber and below said filter; and

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wherein said liquid culturing medium is disposed in said lower end of said chamber and contacts said sensor in said lower end of said chamber.

- 46. (Currently amended) The device product of Claim 45 wherein: said container includes a side wall defining the chamber; said end wall is fixed and defines a continuous closed surface that is continuous with the side wall and free of openings; and said inlet and said outlet are each located above said sensor.
- 47. (Currently amended) The device product of Claim 45 wherein said chamber is fully sealed.
- 48. (Previously presented) The device of Claim 41 wherein said filter is a microporous filter.
- 49. (Previously presented) The device of Claim 41 wherein said filter is a radial flow filter.
- 50. (Previously presented) The device of Claim 41 wherein said sensor is responsive to at least one of a change in pH and the presence of CO₂.
- 51. (Previously presented) The device of Claim 41 wherein said sensor is operative to change color in response to at least one of a change in pH and the presence of CO₂ in said chamber.
- 52. (Previously presented) The device of Claim 51 wherein changes in the color of said sensor are detectable through said transparent section.

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- 53. (Previously presented) The device of Claim 41 wherein said sensor is bonded to said interior surface of said container.
- 54. (Previously presented) The device of Claim 41 wherein said container is formed of a plastic.
- 55. (Previously presented) The device of Claim 41 wherein said container includes:

a container body having an end opening opposite said end wall on which said sensor is mounted; and

an end cap secured over and sealing said end opening; wherein said inlet and said outlet are formed in said end cap.

- 56. (Previously presented) The device of Claim 55 including an O-ring seal between said container body and said end cap.
- 57. (Currently amended) The device product of Claim 45 wherein said device has an operative testing orientation and, when said device is in said operative testing orientation, said sensor resides at a lower end of said chamber and below said filter.
- 58. (Currently amended) The device product of Claim 45 wherein said filter is a microporous filter.
- 59. (Currently amended) The device product of Claim 45 wherein said filter is a radial flow filter.

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60. (Currently amended) The device product of Claim 45 wherein said sensor is responsive to at least one of a change in pH and the presence of CO₂.

- 61. (Currently amended) The device product of Claim 45 wherein said sensor is operative to change color in response to at least one of a change in pH and the presence of CO₂ in said chamber.
- 62. (Currently amended) The device product of Claim 61 wherein changes in the color of said sensor are detectable through said transparent section.
- 63. (Currently amended) The device product of Claim 45 wherein said sensor is bonded to said interior surface of said container.
- 64. (Currently amended) The device product of Claim 45 wherein said container is formed of a plastic.
- 65. (Currently amended) The device product of Claim 45 wherein said container includes:

a container body having an end opening opposite said end wall on which said sensor is mounted; and

an end cap secured over and sealing said end opening; wherein said inlet and said outlet are formed in said end cap.

- 66. (Previously presented) A system for detecting the growth of specimen in a specimen, said system comprising:
 - a) an integrated filtration and detection device comprising:
 a container including a side wall and a fixed end wall defining a chamber
 therein and having an inlet and an outlet in fluid communication with said

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chamber, wherein said end wall defines a continuous closed surface that is continuous with said side wall and free of openings;

a filter for filtering fluids, said filter mounted in said chamber between said inlet and said outlet; and

a sensor mounted in said chamber parallel to and against said end wall of said chamber, said sensor operative to exhibit a change in a measurable property thereof upon exposure to changes in said chamber due to microbial growth;

wherein said container has a transparent section and changes in said measurable property of said sensor are detectable through said transparent section; and said sensor and said filter are disposed at opposed ends of said chamber; and

- b) a measuring apparatus operable to detect the measurable property of said sensor through said transparent section.
- 67. (Currently amended) A system for detecting the growth of specimen microorganisms in a specimen, said system comprising:
 - a) an integrated filtration and detection device product comprising:

 a container defining a chamber therein and having an inlet and an outlet in fluid communication with said chamber;
 - a liquid culturing medium disposed in said chamber;
 - a filter for filtering fluids, said filter mounted in said chamber between said inlet and said outlet; and

a sensor mounted in said chamber parallel to and against an end wall of said chamber, said sensor operative to exhibit a change in a measurable property thereof upon exposure to changes in said chamber due to microbial growth;

wherein said container has a transparent section and changes in said measurable property of said sensor are detectable through said transparent section; and said sensor and said filter are disposed at opposed ends of said chamber;

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wherein said sensor resides at a lower end of said chamber and below said filter; and

wherein said liquid culturing medium is disposed in said lower end of said chamber and contacts said sensor in said lower end of said chamber; and

b) a measuring apparatus operable to detect the measurable property of said sensor through said transparent section.